Health manpower in hospitals

LABORATORY TECHNOLOGISTS

1961-68

BIBLIOTHÈQUE



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LABORATORY TECHNOLOGISTS

1961 - 68

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PREFACE

A series of occasional reports under the general title of *Health Manpower in Hospitals* have been produced by the Institutions Section, Health and Welfare Division, DBS. These reports form part of the over-all Institutions Section series of surveys and reports on Health and Welfare Manpower including the Annual Salary Surveys series relating to Hospital Nursing Personnel and Public Health Nurses.

These reports which are based upon published and unpublished tabulations of the Institutions Section and upon other DBS data are designed to provide an in-depth study on many of the various professional and technical categories of personnel in Canadian hospitals. The data are drawn from the detailed information collected on the Annual Returns of Hospitals (HS-1 and HS-2) from 1961 onwards and reflect such items as changes in employment patterns, workloads, turnover rates, etc., for each province and Canada.

Contained in these reports are brief textual highlights and tables of historical comparisons, as well as definitions of terms (where required). The volume of data presented varies according to the availability of detail on each professional or technical group. The reports will be up-dated periodically.

In addition to a general publication, i.e., *Health Manpower in Hospitals – General*, 1961-68 (Catalogue No. 83-507), which gives the reader a general background of trends in hospital manpower, there are a number of publications dealing with a particular group of hospital personnel (see back cover of this report).

WALTER E. DUFFETT, Dominion Statistician.

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SYMBOLS

The following standard symbols are used in Dominion Bureau of Statistics publications:

- .. figures not available.
- ... figures not appropriate or not applicable.
- nil or zero.
- -- amount too small to be expressed.
- P preliminary figures.
- r revised figures.

EXPLANATORY NOTES AND GLOSSARY

Hospital

An institution which is operated for the medical, surgical and/or obstetrical care of in-patients, and which is licenced or approved as a hospital by the federal and/or a provincial government, or by a municipality duly authorized under the laws of the province. Specifically excluded are institutions primarily for tuberculosis, mental disease, and mental defect.

Private Hospital

Recognized by the province as a "private hospital" which generally restricts its admissions to patients paying for the care provided at rates determined by the management.

Public Hospital

Recognized by the province as a "public hospital" which is not operated for profit and accepts all patients regardless of ability to pay.

Federal Hospital

A hospital owned and operated by the Government of Canada; operation will either be by the Department of National Health and Welfare, the Department of National Defence, or the Department of Veterans Affairs.

General Hospital

A hospital which provides for the treatment and care of all types of diseases or at least a wide range of conditions.

Allied Special Hospital

Includes chronic, convalescent, rehabilitation and "other" hospitals.

Rated Bed Capacity

The number of beds that the hospital is designed to accommodate as at December 31 of the reporting year, on the basis of established standards of floor area per bed.

Size of Hospital

The size of a hospital in this report is determined by the rated bed capacity on December 31 of the reporting year.

Full-time Staff

Persons employed on a full-time basis at December 31, i.e., regularly employed throughout the full hospital workweek.

Part-time Staff

Persons employed on a part-time basis at December 31, i.e., regularly employed on selected days or partial days in the hospital workweek.

Staff Separation

The departure of an employee from employment within the hospital.

Paid Hours

Accumulated during the year, paid hours include full-time and part-time regular employees of the hospital who have had salaries and wages payable to them by the hospital.

Revenue Fund

The Revenue Fund is set up to record monetary activities associated with the day-to-day operations of the hospital in providing services to patients. It is sometimes called the Operating Fund.

Revenue Fund Expense.—Revenue Fund Expense is the cost, on an accrual basis, of operating and maintaining the hospital during the year, regardless of the amounts of disbursements made during the year.

Salaries and Wages.—Included are the gross salaries and wages earned during the year by all hospital personnel whether or not actually paid during the year. Gross salaries and wages comprise the following:

- (1) Salaries, wages and other remuneration earned by paid personnel, including special allowances paid and perquisites supplied to such personnel; includes also any earned fees or other remuneration perquisites, and special allowances to physicians or therapists for services rendered to the hospital.
- (2) The value of contributed services of regular staff members working without pay, and of perquisites supplied to such personnel, calculated on the basis of salary scales of similar services in the community and supported by regular payroll records.

In-patients

Patients who are duly admitted to the hospital and to whom a bed or bassinet has been allocated. (This category excludes stillbirths as well as patients attending a day or night centre attached to the hospital).

Adults and children. - All in-patients except newborn.

Admission. — The formal acceptance and reception of a person as an in-patient (including newborn).

Patient-day.—The period of service to an inpatient between the census-taking hours on two successive days; the day of admission is counted as a patient-day but the day of separation is not.

Population

June 1 population figures as enumerated in Consus years or estimated for inter-censal years.

Laboratory Technologist

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Personnel registered with the Canadian Society of Laboratory Technologists as qualified laboratory technologists.

Combined Laboratory and Radiological Technician

Personnel who successfully completed a provincially-approved course for combined laboratory and radiological technicians.

Radiology

Examination.—The procedure involving one completed film or series of films, or one or more exposures for fluoroscopy, directed at one anatomical site or region of the body during one attendance of the patient at the X-ray department.

This report, which is one of the series of statistical reports on Health Manpower in Canada, relates to qualified laboratory technologists employed in reporting general and allied special hospitals¹ excluding mental and tuberculosis in Canada for the years 1961-68 inclusive. In addition to this report, and others which deal with specific professional and technical groups, a general publication, Health Manpower in Hospitals-General, 1961-68, Catalogue No. 83-507, which enables the reader to observe trends in total manpower of Canadian hospitals (excluding mental and tuberculosis) is available.

Data included in this publication pertain to general and allied special hospitals and are arranged into the following areas: absolute counts of personnel, separations and paid hours, turnover rates and various ratios relating laboratory productivity, personnel and costs to over-all hospital activity. The data have been organized historically to bring out trends.

Hospitals reporting data for qualified laboratory technologists, generally, have been increasing in number. In 1961, the number of reporting hospitals was 426 (34.6 per cent of all operating general and allied special hospitals), while in 1968 the absolute number reporting was 626 (49.3 per cent) (Table 1). From 1961 to 1968, most of the operating public general hospitals with 100 beds or more reported information relating to qualified laboratory technologists. In the case of public general hospitals under 100 beds in size, the number reporting decreased in direct relationship to the size of the hospital. Provincially, Quebec and Ontario together have accounted for most of the hospitals reporting data on qualified laboratory technologists, averaging over fifty-five per cent during the period 1961-68. The proportion of reporting to operating hospitals in Quebec and Ontario combined has climbed from 42.6 per cent in 1961 to 61.2 per cent in 1968.

HIGHLIGHTS

Qualified Laboratory Technologists

The total number of qualified laboratory technologists² in reporting general and allied special hospitals in Canada has increased 124.8 per cent from 2,594 in 1961 to 5,832 in 1968. The number of technologists per 100,000 population has climbed from 14.2 in 1961 to 28.1 in 1968 (Table 3). Most frequently during this period, Saskatchewan maintained the highest rate per 100,000 population.

Over nine tenths of the total number of technologists reported in general and allied special hospitals during the years 1961-68 were employed on a full-time basis. Public general hospitals with 500-999 beds, for most of the years covered, reported more full-time technologists than any other size-group of hospitals. At the provincial level, Quebec and Ontario combined accounted for about two thirds of reported full-time technologists over the period 1961-68.

From 1961 to 1968 the rate of full-time technologists to full-time hospital staff in Canadian general and allied special hospitals has increased from 1.31 per cent to 2.03 per cent, an increase of 55.0 per cent (Table 2). Provincially, the highest rate of full-time technologists to full-time hospital personnel has been maintained by British Columbia, ranging from 2.01 per cent in 1962 to 2.71 per cent in 1968, while at the other extreme New Brunswick had the lowest rate, varying from 0.35 per cent in 1963 to 0.62 per cent in 1967.

Turnover rates of full-time technologists in Canadian general and allied special hospitals ranged from 54.9 per cent in 1962 to 32.0 per cent in 1968 (Table 4). Since the counts of separations for the year 1962 include some unqualified laboratory technologists, the turnover rates for 1962 are inflated; separations, and consequently turnover rates, for the remaining years relate to qualified technologists only. Thus, for the years 1963-68 the values of the turnover rates have shown less variance, being highest in 1964 (38.0 per cent) and lowest in 1968 (32.0 per cent). A comparison at the provincial level showed that Prince Edward Island (for the years 1962, 1963 and 1967), Newfoundland (1964-66) and New Brunswick (1968) had the lowest rates of turnover, while the highest rates were found in Alberta most frequently (1963, 1964, 1966 and 1967) followed by Newfoundland (1962), Prince Edward Island (1965) and Nova Scotia (1968).

Paid hours reported for technologists employed in general and allied special hospitals in Canada have increased by 70.4 per cent from 6,371,846 in 1963 to 10,856,350 in 1968. In the laboratory department as a whole, paid hours per 100 patient-days climbed from 44.0 in 1961 to 68.6 in 1968, an increase of 55.9 per cent (Table 10). For total hospital personnel the ratio of paid hours per patient-day has advanced 17.2 per cent from 11.6 in 1961 to 13.6 in 1968 (Table 9). The ratio of paid hours in the laboratory department per 100 laboratory units done in general and allied special hospitals has shown a decrease of 17.3 per cent from 13.3 in 1964 to 11.0 in 1968 (Table 10).

Workload over the period 1961-68 in the laboratory departments of reporting general and allied special hospitals in Canada has been increasing.

¹ Public, private and federal. Unless otherwise specified, this reference is implied throughout. ² Hereinafter, referred to simply as "technologists".

The number of laboratory units done in the hospital laboratory per paid hour in the laboratory has climbed 49.2 per cent from 6.1 in 1961 to 9.1 in 1968. Laboratory units done in the hospital laboratory per patient-day have increased from 3.7 in 1964 to 6.0 in 1968 (+62.2 per cent), and in-patient laboratory units (excluding those referred out) per 100 adult and child admissions have risen to 5,849.4 in 1968 from 2,884.9 in 1962 (+102.8 per cent) (Table 11).

In reporting public general and allied special hospitals laboratory department salary cost³ per patient-day increased 115.5 per cent from \$0.84 in 1963 to \$1.81 in 1968, whereas the total hospital salary cost per patient-day increased 76.0 per cent from \$17.14 in 1963 to \$30.16 in 1968 (Table 13). When the former was taken as a percentage of the latter, the resultant proportion was found to have advanced from 4.9 per cent in 1963 to 6.0 per cent in 1968. Of total Revenue Fund expenditure per patient-day, the ratio of laboratory salaries per patient-day represented a steadily increasing proportion, going from 3.1 per cent in 1963 to 4.0 per cent in 1968. Laboratory department salary cost per patient-day was highest in the largest public general hospitals.

Laboratory department salary cost per laboratory unit done in hospital advanced 16.0 per cent from 0.25 in 1964 to 0.29 in 1968 (Table 14). When this ratio was looked at as a percentage of laboratory department direct cost per laboratory

³ Excludes pathologist remuneration.

unit done in hospital over the period 1964-68, it was found to be relatively stable around 58.0 per cent.

Qualified Combined Laboratory and Radiological Technicians

In addition to qualified laboratory technologists there have been an increasing number of qualified combined laboratory and radiological technicians⁴ reported by general and allied special hospitals in Canada during the years 1961-68, i.e., the number of combined technicians has increased 86.3 per cent from 131 in 1961 to 244 in 1968. Over the years covered, full-time combined technicians have represented from 82.4 per cent (for the year 1967) to 94.2 per cent (1964) of total combined technicians employed (Table 15). The greatest proportion of these combined technicians were found to be in public general hospitals under 100 beds in size. At the provincial level, Saskatchewan and Alberta together consistently accounted for the majority of combined technicians employed in general and allied special hospitals; only in 1963, when the proportion of combined technicians amounted to 48.8 per cent of the reported total for Canada. did these two provinces not have a greater proportion.

Paid hours reported by general and allied special hospitals in Canada for combined technicians have decreased 21.8 per cent from 551,409 in 1962 to 430,936 in 1968 (Table 15).

⁴ Hereinafter referred to as "combined technicians".

Province	19	61	19	62	19	63 ,	19	964
Frovince	Operating	Reporting ²	Operating	Reporting ²	Operating	Reporting	Operating	Reporting
Canada Public general by bed size 1 - 9 beds 10 - 24 '' 25 - 49 '' 50 - 99 '' 100 - 199 '' 200 - 299 '' 300 - 499 '' 500 - 999 '' 1,000 + ''	856 73 219 196 130 121 45 40 26 6	374 7 54 91 113 40 39 24 6	832 49 208 189 133 126 49 45 26 7	364 	838 48 203 190 138 127 49 45 31 7	423 - 11 66 101 120 46 43 29 7	845 377 202 194 140 131 55 48 31 7	435 6 65 105 125 51 46 30 7
All hospitals Canada Newfoundland Prince Edward Island Nova Scotia New Brunswick Quebec Ontario Manitoba Saskatchewan Alberta British Columbia Yukon Northwest Territories	1, 230 42 9 53 41 288 278 102 162 124 109 3 19	426 5 3 28 15 100 141 18 30 34 ;, 50. 1	1,250 43 9 53 40 260 319 102 159 126 110 5 24	402 5 3 26 12 91 137 16 28 29 54 54	1,250 44 9 52 40 262 312 101 157 131 111 .5 26	498 6 4 28 13 134 154 21 42 60 1 4	1, 269 46 9 51 39 266 317 102 155 141 112 5 26	527 6 4 33 15 161 19 29 41 64 41 . 1 2
······································	1965		1966		1967		1968	
	Operating	Reporting	Operating	Reporting	Operating	Reporting	Operating	Reporting
Canada Public general by bed size 1 - 9 beds 10 - 24 '' 25 - 49 '' 50 - 99 '' 100 - 199 '' 200 - 299 '' 300 - 499 '' 500 - 999 ''	, 852 36 203 192 144 130 58 51 30 8	479 	869 33 204 197 149 128 63 56 30 9	507 	874 32 206 196 147 128 67 59 30 9	526 1 20 94 127 123 64 58 30 9	881 32 200 201 145 130 70 58 37 8	539 1 23 100 119 126 68 57 37 8
All hospitals Canada	1, 283	5.67	1 979	500	1 077	617	1.000	
Canada Newfoundland Prince Edward Island Nova Scotia New Brunswick Quebec Ontario Manitoba Saskatchewan Alberta British Columbia Yukon Northwest Territories	$ \begin{array}{r} 1, 283 \\ 47 \\ 9 \\ 51 \\ 40 \\ 273 \\ 315 \\ 102 \\ 155 \\ 141 \\ 119 \\ 5 \\ 26 \\ \end{array} $	$\begin{array}{c} 567\\ 11\\ 3\\ 32\\ 17\\ 153\\ 169\\ 27\\ 40\\ 46\\ 66\\ 1\\ 2\end{array}$	$1,273 \\ 47 \\ 9 \\ 50 \\ 40 \\ 264 \\ 309 \\ 99 \\ 154 \\ 151 \\ 116 \\ 5 \\ 29$	590 11 4 32 19 156 173 300 42 48 71 1 3	$1, 277 \\ 47 \\ 9 \\ 50 \\ 41 \\ 269 \\ 306 \\ 99 \\ 154 \\ 150 \\ 118 \\ 5 \\ 29 \\ $	617 11 3 34 23 163 181 24 41 56 76 1 4	$1,269 \\ 47 \\ 9 \\ 50 \\ 41 \\ 266 \\ 299 \\ 100 \\ 153 \\ 153 \\ 117 \\ 5 \\ 29$	626 12 3 32 23 162 184 26 43 60 76 76 1 4

TABLE 1. Hospital Operating and Reporting, ¹ by Province, 1961	
	68

¹ Based upon the number of hospitals which reported paid hours for qualified laboratory technologists.
 ² Data for 1961 and 1962 include hospital reporting paid hours for unqualified as well as qualified laboratory technologists.

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TABLE 2. Qualified Laboratory Technologists Employed ¹ as a Percentage of Total Hospital Personnel, ²
General and Allied Special Hospitals, by Province, 1961-68

Desident	1961		1962		1963		1964	
Province	Full-time	Part-time	Full-time	Part-time	Full-time	Part-time	Full-time	Part-time
		per cent						
Canada	1, 31	0.81	1, 34	0.76	1, 51	0,88	1.56	0.94
Newfoundland Prince Edward Island Nova Scotia New Brunswick Quebec Ontario Manitoba Saskatchewan Alberta British Columbia Yukon Northwest Territories	$\begin{array}{c} 0.43\\ 0.89\\ 1.09\\ 0.43\\ 1.39\\ 1.20\\ 1.36\\ 1.69\\ 1.25\\ 2.05\\ 0.72\\ 0.39\end{array}$	1.59 0.57 - 0.74 0.99 0.83 - 0.83 0.74 - -	$\begin{array}{c} 0.61\\ 1.10\\ 1.14\\ 0.37\\ 1.44\\ 1.28\\ 1.24\\ 1.73\\ 1.18\\ 2.01\\ -\\ 0.24 \end{array}$	1.06 0.34 0.78 0.96 0.76 0.76 0.55 0.82 0.52 0.52	$\begin{array}{c} 0.73\\ 1.17\\ 1.27\\ 0.35\\ 1.61\\ 1.45\\ 1.51\\ 1.93\\ 1.36\\ 2.21\\ 0.64\\ 0.86\end{array}$	1. 47 0. 52 - 1. 36 0. 75 0. 87 0. 84 0. 85 0. 88 0. 88 - 2. 22	$\begin{array}{c} 0.79\\ 1.06\\ 1.49\\ 0.43\\ 1.67\\ 1.49\\ 1.59\\ 1.96\\ 1.27\\ 2.30\\ 0.65\\ 0.52\end{array}$	1.39 0.48 - 1.92 0.75 0.66 0.34 0.58 0.97 -

See footnote(s) at end of table.

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Province	1965		1966		1967		1968	
	Full-time	Part-time	Full-time	Part-time	Full-time	Part-time	Full-time	Part-time
· · · · · · · · · · · · · · · · · · ·			••••••••••••••••••••••••••••••••••••••	per	cent			I
Canada	1.66	1.16	1. 79	1. 23	1.91	1, 13	2.03	1.24
Newfoundland Prince Edward Island Nova Scotia New Brunswick Quebec Ontario Manitoba Saskatchewan Alberta British Columbia Yukon Northwest Territories	$\begin{array}{c} 0.91\\ 0.86\\ 1.44\\ 0.46\\ 1.76\\ 1.62\\ 1.67\\ 2.15\\ 1.28\\ 2.32\\ 1.31\\ 0.84\end{array}$	$\begin{array}{c} - \\ 1.19 \\ 0.71 \\ 0.60 \\ 2.24 \\ 0.78 \\ 0.87 \\ 0.94 \\ 1.14 \\ 1.41 \\ - \end{array}$	$1.03 \\ 1.01 \\ 1.87 \\ 0.44 \\ 1.90 \\ 1.74 \\ 1.67 \\ 2.21 \\ 1.42 \\ 2.57 \\ 1.90 \\ 0.82 $	$\begin{array}{c} 0.92 \\$	1.050.981.980.621.911.981.822.281.422.691.341.09	0.98 0.88 1.52 1.03 0.77 0.77 1.30 1.23 1.09	1.29 0.72 2.37 0.60 2.03 2.09 2.07 2.49 1.49 2.71 1.30 1.32	$\begin{array}{c} 0.66\\ 0.91\\ 1.25\\ 0.53\\ 1.62\\ 1.17\\ 0.73\\ 0.63\\ 1.49\\ 1.10\\ -\end{array}$

TABLE 2. Qualified Laboratory Technologists Employed¹ as a Percentage of Total Hospital Personnel,² General and Allied Special Hospitals, by Province, 1961-68 - Concluded

¹ Reported data. ² Estimated data.

TABLE 3. Qualified Laboratory Technologists Employed' by General and Allied Special Hospitals per 100,000 Population,² by Province, 1961-68

Province	1961	1962	1963	1964	1965	1966	1967	1968
Canada Newfoundland Prince Edward Island Nous Section	14.2 2.8 8.6 11.8	15.1 4.3 9.3	17.6 5.5 11.1	18.9 7.2 10.1 17.1	21. 1 8. 4 9. 2 17. 2	23.5 11.0 10.1 23.8	25.8 13.0 10.1 25.9	28.1 16.2 8.2 31.8
Nova Scotia New Brunswick	11.8 4.8 14.4 14.0 16.6 18.8 13.3 19.5 7.1 4.3	12.9 4.8 15.5 15.4 15.7 19.8 12.9 19.3 - 4.0	14.4 4.3 18.8 17.8 19.1 22.9 15.3 21.7 6.7 15.4	17.1 5.2 21.1 18.7 19.6 23.4 15.2 22.7 6.7 7.4	$\begin{array}{c} 17.2\\ 6.2\\ 24.2\\ 20.8\\ 21.6\\ 26.9\\ 16.2\\ 24.3\\ 14.3\\ 11.1\end{array}$	23.8 5.5 27.4 22.7 23.6 27.4 18.9 26.8 21.4 10.3	25.9 7.9 27.8 26.8 24.6 27.9 21.3 28.9 13.3 17.2	31.8 8.7 30.3 29.1 28.5 23.6 29.4 13.3 16.1

¹ Reported data, full-time and part-time. ² Estimate.

Source: Estimated Population of Canada by Province at June 1, 1969 (Catalogue No. 91-201), Research Section, Census Division, DBS.

TABLE 4. Turnover Rates¹ of Full-time Qualified Laboratory Technologists, General and Allied Special Hospitals, by Province, 1962-68

Province	1962²	1963	1964	1965	1966	1967	1968
Canada				per cent			
Public general by bed size 1 - 9 beds 10 - 24 "' 25 - 49 " 50 - 99 " 100 - 199 "	56.8 20.0 54.4 60.0 43.8 56.6	36.6 80.0 43.0 37.7 33.1 37.0	39.0 18.2 36.9 39.1 35.6 37.0	38.2 40.0 33.3 36.8 36.4 34.1	36.2 93.3 32.9 32.3 35.9 36.4	37.3 23.1 36.6 39.7 39.7 36.2	$32.2 \\ 44.4 \\ 32.9 \\ 36.3 \\ 34.4 \\ 31.0 $
300-499 " 500-999 " 1,000+ " All hospitals Canada	50.0 61.8 74.8 54.9	32. 2 39. 3 40. 1 36. 6	38.7 40.0 43.6 38.0	40. 2 31. 2 53. 8 37. 0	34.7 34.6 42.2 35.5	38.0 34.5 39.0 37.3	30.4 37.2 22.6 32.0
Newfoundland Prince Edward Island Nova Scotia New Brunswick Quebec Ontario Manitoba Saskatchewan Alberta British Columbia Yukon Northwest Territories	93. 8 11. 1 47. 5 18. 2 42. 7 61. 4 52. 0 74. 0 68. 8 54. 5 -	22. 2 9. 5 22. 2 15. 4 30. 3 35. 8 54. 1 43. 0 56. 6 39. 8 200. 0 100. 0	$\begin{array}{c} 16.6\\ 16.0\\ 37.2\\ 37.2\\ 35.6\\ 38.0\\ 33.1\\ 49.3\\ 57.9\\ 33.2\\ 200.0\\ 40.0\\ \end{array}$	23, 7 73, 7 32, 8 23, 9 30, 3 41, 7 34, 9 36, 1 62, 3 33, 0 40, 0	25.8 27.1 31.9 26.0 39.0 40.9 46.3 53.2 37.1 100.0	43.9 43.9 18.2 44.3 24.1 30.9 38.0 36.8 46.9 58.4 35.7 57.1	26.8 31.6 43.3 22.2 27.6 34.9 28.2 39.6 38.9 26.4 50.0 66.7

¹ The turnover rate is an average measure which expresses the number of personnel who leave as a percentage of the average number of persons <u>Number of separations (1968)</u> employed. In 1968, e.g., formula for calculation is <u>Number of employees (1967 + 1968)</u> x 100. <u>2</u>

² In 1962, the data include unqualified, as well as qualified, laboratory technologists.

	196	31	. 19	62	19	63	19	64
Province		Part-time		Part-time	Full-time	Part-time	Full-time	Part-time
	Full-time	Part-time	Full-time	Part-time	Full-time	Part-time	Full-time	Part-time
Canada								
Public general by bed size	2,199	125	2,478	139	2,855	179	3,106	199
1 - 9 beds	-	-	_	-	-	-	-	-
10 - 24 "	7	2	3	<u> </u>	7	4	4	2
25 - 49 "	59	12	55	13 20	66 152	13 21	64 154	14 25
50 - 99 · · · · · · · · · · · · · · · · ·	131 398	12 18	139 420	20 25	153 457	21	154 499	25 36
200 - 299 ''	275	29	304	24	339	17	379	17
300-499 ''	483	28	602	21	616	.55	680	40
500-999 ''	548	15	566	23	813	24	868	50
1,000 + "	298	9	389	13	404	19	458	15
All hospitals				-				
Canada	2,436	158	2,634	165	3, 142	196	3,416	233
Newfoundland	- 13		19	1	26	-	35	-
Prince Edward Island	8	1	10	-	11	1	10	1
Nova Scotia	84	3	93 26	3	105 26	3	126 32	3
New Brunswick	29 723	- 34	20 791	43	970	59	1,084	.97
Ontario	788	87	899	82	1,071	84	1,148	89
Manitoba	141	12	136	11	167	14	177	11
Saskatchewan	174	-	180	4	206	8	216	4
Alberta	169	8	168	9	203	11	208 377	9 19
British Columbia	305 1	13	311	9	353 1	15	1	- 15
Northwest Territories	1	_	1	_	3	1	2	-
	1965		1966		19	967		68
	Full-time	Part-time	Full-time	Part-time	Full-time	Part-time	Full-time	Part-time
	-							
Canada								
Public general by bed size	3,488	280	3,975	350	4,471	370	4,988	436
1 - 9 beds	- 6	- 5	- 9	9	1	- 7	1	5
10 - 24 "	80	22	84	16	102	20	105	24
50 - 99 "	172	27	212	25	226	26	237	26
100-199 "	511	45	541	37	561	42	613	49
200-299 "	449	37	550	44	676	57	760	81
300 - 499 **	819 902	65 44	1,009 985	90 83	1,167	100 80	1,224	97 115
500 - 999 '' 1,000 + ''	549	35	585	46	672	38	596	39
All hospitals								
All nospitalis Canada	3,828	318	4, 319	394	4,853	411	5, 348	484
Newfoundland		_	52	2	62	3	80	2
Prince Edward Island	9	1	11		11	-	8	1
Nova Scotia		6	167	13	185	11	226	16
New Brunswick		3	34	-	49	-	50	4
Quebec	1,249	128	1,423	159	1,499		1,633	165
Ontario		100	1,448	129	1,761	158	1,943	186
Manitoba Saskatchewan		18 12	253	9	211		230	12
Alberta		19	261	16	280		312	48
British Columbia		31	468	35	529	33	1	31
Yukon	1	-	3	-	2		2	-
Northwest Territories	. 3	-	3		4	1	5	-

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 TABLE 5. Qualified Laboratory Technologists Employed Full-time and Part-time in Reporting

 General and Allied Special Hospitals, by Province, 1961-68

Province	1961 ¹	19621	1963	1964	1965	1966	1967	1968
Canada								
Public general by bed size	1, 297	1,328	975	1, 163	1, 259	1, 349	1, 574	1,523
1- 9 beds	-	_	-	-	_	_		· _
10 - 24 "	1	1	4	1	2	7	3	8
25-49 ''	31	31	26	24	24	27	34	34
50 - 99 ''	82	81	55	60	60	62	87	84
100 - 199 ''	. 215	179	145	170	184	189	219	202
200 - 299 ''	145	164	119	133	141	182	222	227
300 - 499 ''	245	271	196	251	301	317	413	363
500 - 999 ''	324	344	271	336	276	326	351	46
1,000 + "	254	257	159	188	271	. 239	245	14
All hospitals								
Canada	1, 385	1, 391	. 1,057	1, 247	1, 340	1, 448	1, 709	1, 634
Newfoundland	6	15	5	5	9	12	25	19
Prince Edward Island	8	· 1	1	2	7		2	3
Nova Scotia	34	42	22	43	. 41	54	78 ·	89
New Brunswick	16	5	4	· 5	8	. 11	. 10	11
Quebec	341	323	267	4 366	354	347	451	· 432
Ontario	516	· 518	353	· 422	512	538	. 610	646
Manitoba	57	. 72	. 82	57	64	79.	76	67
Saskatchewan	: 107	. 131	· 83	104	83	. 115	. 119	. 104
Alberta	141	116	· 105	119	132	127	158	115
British Columbia	159	168	132	· · 121	129	162	178	144
Yukon	_	· _	1	2	· _	. –	_	1
					1	1	1	

TABLE 6. Separations of Qualified Laboratory Technologists Employed Full-time from Reporting General and Allied Special Hospitals, by Province, 1961-68

¹ For the years 1961 and 1962, data for separations include unqualified, as well as qualified, laboratory technologists.

TABLE 7. Paid Hours	of Qualified Laboratory Technologists Employed ¹ in Reporting General and
	Allied Special Hospitals, by Province, 1962-68

Province	1962²	1963	1964	1965	1966	1967	1968
Canada			•				
Public general by bed size	8,228,752	5,925,553	6,600,098	7,450,977	8,201,504	9,075,510	10, 244, 807
1- 9 beds	-	_		_	-	550	2, 080
10 - 24 "	37,091	17, 386	8,353	15,798	23,693	29,645	42,918
25 - 49 "	206,001	140, 519	147,687	166,036	185, 675	214,091	239,024
50 - 99 ''	410, 528	334, 340	345, 706	379,960	453,608	482, 437	508, 381
100 - 199 ''	1, 275, 198	974,657	1,084,092	1, 103, 983	1,127,936	1, 158, 271	1,329,906
200 - 299 **	1,041,437	711,770	834, 444	961,879	1, 163, 392	1,347,881	1,594,769
300 - 499 ''	1,954,333	1,269,946	1, 464, 300	1, 745, 195	2,025,520	2,406,755	2, 392, 661
500-999 ''	2, 126, 261	1,634,341	1,756,545	1,911,879	2,039,838	2,115,091	2,932,284
1,000 + "	1, 177, 903	842, 594	958,971	1, 166, 247	1, 181, 842	1, 320, 789	1, 202, 784
All hospitals							
Canada	8, 683, 602	6, 371, 846	7, 126, 210	7, 996, 690	8, 703, 682	9, 648, 430	10,856,350
Newfoundland	121, 485	51, 265	57, 181	73,927	85,653	103, 897	153, 152
Prince Edward Island	22, 006	24,972	25, 159	19,736	19,800	14, 264	19, 237
Nova Scotia	[.] 284, 184	210, 108	259,862	264,903	351,912	409, 839	472, 988
New Brunswick	98,770	49,950	65,832	68,770	71,781	94, 300	100, 549
Quebec	2, 171, 788	1,951,470	2, 291, 554	2,627,423	2, 792, 465	2,818,445	3, 148, 250
Ontario	3,380,901	2, 212, 295	2,399,189	2,738,599	2,965,950	3, 524, 855	3,948,826
Manitoba	501,744	341, 342	332, 572	378,769	412, 363	450,950	511,937
Saskatchewan	625,901	405,900	470, 676	520,366	546, 542	581,305	590, 490
Alberta	609,447	399,757	428,785	442, 368	494,047	564,220	682, 323
British Columbia	858,901	716,421	788,965	852, 525	951,462	1,070,249	1, 212, 735
Yukon	6,208	2, 112	2,732	4, 390	5,637	5,763	5, 554
Northwest Territories	2, 267	6,254	3,703	4,914	6,070	10,343	10, 309

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¹ Full-time and part-time.
 ² In 1962, data for paid hours include unqualified, as well as qualified, laboratory technologists.

Province	1961	1962	1963	1964	1965	1966	1967	1968
Canada .								
Public general by bed size	87.8	90.3	92.3	94.6	96.5	96.4	98.3	101.5
1 - 9 beds	5.7	5.7	5.7	6.4	6.9	6.3	6.1	5.9
10 - 24 "	12.2	12.1	12.6	12.1	12.3	12.1	12.0	11.8
25 - 49 ''	26.6	26.2	26.0	25.7	25.8	25.5	24.9	24.8
50 - 99 ''	55.7	55.0	55.1	54.8	54.7	54.4	53.7	53.6
100 - 199 ''	118.3	110.9	110.7	110.0	110.1	106.8	105.8	106.1
200 - 299 ''	186.9	186.3	185.6	188.5	191.2	193.0	190.1	192.2
300 - 499 ''	327.0	319.3	311.2	306.5	304.8	301.5	308.0	313.1
500 - 999 ''	600.8	592.5	563.5	569.1	567.2	556.6	548.0	548.1
1,000 + ''	1,043.5	1,039.7	1,049.6	1,063.0	1,043.6	1,039.9	1,009.0	1,039.6
All hospitals								
Canada	83.7	81.4	86.7	83.6	88.2	89.1	91.4	94.1
Newfoundland	39.9	38.4	42.6	40.9	44.9	42.9	45.8	47.9
Prince Edward Island	54.2	54.1	53.4	53.3	53.6	56.0	57.0	56.7
Nova Scotia	65.7	67.5	70.5	73.3	74.1	77.8	79.7	79.5
New Brunswick	80.8	80.5	80.4	83.9	83.5	84.0	83.3	85.3
Quebec	104.2	110.3	110.4	106.9	110.4	114.2	115.6	121.6
Ontario	131.8	111.3	139.5	120.3	139.3	140.1	146.4	150.3
Manitoba	54.8	53.5	55.1	53.8	53.7	55.0	54.6	55.6
Saskatchewan	36.9	36.4	38.3	39.3	39.2	39.3	39.1	38.1
Alberta	63.3	63.9	61.8	62.8	66.1	65.3	66.3	69.5
British Columbia	86.7	82.1	86.5	84.2	86.4	89.1	92.0	96.9
Yukon	27.4	30.3	14.6	13.6	13.1	14.2	13.7	13.0
Northwest Territories	3.7	6.0	8.0	7.2	6.8	6.5	7.0	5.9

TABLE 8. Average Number of Patients per Day,¹ General and Allied Special Hospitals, by Province, 1961-68

¹ The average number of patients (adults and children) in a given hospital on a given day.

Province	1961	1962	1963	1964	1965	1966	1967	1968
]	Paid hours, to	otal hospital	er rated bed			
Canada Public general by bed size 1 - 9 beds 10 - 24 ''		3,873.1 3,121.3 2,440.4	3,959.2 3,101.0 2,475.3	4,032.0 3,272.3 2,467.0	4,143.8 3,462.5 2,519.6	4,230.0 3,408.4 2,556.4	4,299.0 3,370.8 2,587.2	4,400.5 3,092.3 2,643.7
25 - 49 ''	•• •• •• ••	2,585.0 2,927.2 3,596.5 3,906.4 4,188.4 4,508.2	2,624.3 3,059.6 3,640.3 3,973.8 4,238.4 4,656.4	2,609.6 3,053.6 3,666.4 3,890.4 4,354.8 4,878.6	2,595.0 3,125.9 3,759.8 4,055.4 4,429.2 5,089.9	2,648.6 3,156.3 3,753.1 4,135.7 4,499.6 5,265.7	2,667.8 3,197.7 3,797.9 4,111.6 4,621.3 5,434.5	2,725.1 3,302.6 3,781.6 4,211.9 4,643.9 5,456.8
500 - 999 '' 1,000 + '' All hospitals	••	4,823.3	4,832.3	4,878.0 5,060.3	5,046.4	5,232.9	5,086.6	5,482.0
Canada Newfoundland Prince Edward Island Nova Scotia		3, 538. 1 4, 231. 4 2, 901. 8 3, 695. 5	3,576.6 4,008.6 2,954.6 3,870.6	3,656.9 3,773.1 3,021.8 3,871.3	3,777.9 3,734.4 2,997.3 3,824.8	3,864.6 3,570.6 3,146.8 3,899.4	3,941.6 3,866.9 3,212.2 4,246.1	4,039. 3 4,370.7 3,226.4 4,241.5
New Brunswick Quebec Ontario	··· ···	3,612.6 3,669.3 3,596.1	4,027.7 3,678.4 3,671.6 3,650.3	4,027.5 3,879.4 3,741.1 3,759.8	4,150.8 4,110.4 3,821.0 3,832.1	4,214.2 4,174.4 3,969.6 4,022.1	4,257.3 4,246.1 4,059.1 4,058.8	4,263.3 4,273.0 4,191.1 4,335.9
Saskatchewan		3,172.2 3,095.1 3,253.7 } 1,983.3	3,243.7 3,179.6 3,201.4 { 2,200.7 1,836.9	3,285.6 3,012.6 3,376.9 2,074.6 1,754.4	3,410.7 3,110.4 3,470.5 2,063.3 1,807.6	3,423.0 3,135.0 3,498.2 2,087.7 1,915.3	3,420.0 3,198.7 3,543.0 2,072.1 1,893.9	3,387.4 3,332.8 3,672.5 2,022.3 2,022.0

TABLE 9. Selected Paid Hours Ratios, General and Allied Special Hospitals, by Province, 1961-68

, General and Allied Special Hospitals, by Province, 1961-68 - Concluded

Province	1961	1962	1963	1964	1965	1966	1967	1968
		P	aid hours, to	tal hospital p	personnel, pe	r pațient-day	1	
Canada								
Public general by bed size	12.5	10.0	10.0					
1 - 9 beds		12.9	13.2	13.6	13.9	14.4	15.0	15.1
10 - 24 **	10.5	10.7	10.6	10.5	10.5	11.4	11.8	12.0
	8.8	9.0	8.9	9.2	9.4	9.6	9.9	10.3
	9.0	9.1	9.2	9.4	9.4	9.7	10.0	10.2
50 - 99 "	10.1	10.0	10.3	10.5	10.8	10.9	11.4	11.7
100-199 "	11.8	12.2	12.4	12.8	12.9	13.2	13.4	13.4
200-299 "	13.5	13.3	13.6	13.6	13.9	14.2	14.4	14.5
300-499 "	13.1	13.7	13.8	14.3	14.7	15.3	15.9	15.4
500-999 "	14.2	14.4	15.1	15.7	16.3	17.2	18.3	18.3
1,000 + "	14.7	15.7	15.6	16.0	16.5	17.0	17.2	17.6
All hospitals							1	
Canada	11.6	11.8	12.0	12.4	12.6	13.0	13.5	13.6
Newfoundland	12.9	12.6	12.6	13.4	13.6	14.4	15.3	16.0
Prince Edward Island	12.6	11.8	12.1	12.4	12.3	12.3	12.7	12.8
Nova Scotia	13.4	13.3	13.6	13.5	13.8	13.8	14.9	15.1
New Brunswick	12.9	12.9	13.2	13.4	13.7	13.8	14.1	14.3
Quebec	11.7	11.9	12.2	13.1	13.6	14.6	14.7	14.4
Ontario	11.7	12.0	12.1	12.4	12.5	12.9	13.3	13.7
Manitoba	12.1	12.1	12.3	12.6	13.1	13.5	14.0	14.4
Saskatchewan	10.5	10.8	10.6	11.0	11.3	11.4	11.9	12.1
Alberta	10.6	10.5	10.9	10.9	10.9	11.4	11.7	12.1
British Columbia	10.9	10.8	10.7	11.2	11.4	11.2	11.7	12.0
Yukon	10.8	1	12.4	13.5	11.4	11.3	13.3	11.9
Northwest Territories	12.2	} 11.1	10.9	11.7	13.8	12.9	13.3	13.7
	12.2	J	10.5	11.1	14.0	12.3	12.0	10.0

¹ Adults and children.

.

TABLE 10. Selected Laboratory Paid Hours Ratios, General and Allied Special Hospitals, by Province, 1961-68

Province	1961	1962	1963	1964	1965	1966	1967	1968
			Paid hour	s laboratory	per 100 patie	ent-days ¹		
Canada								
Public general by bed size	48.0	- 52.0	53.0	57.0	60.9	64.8	71.7	76.
1- 9 beds	20.0	22.0	30.0	29.0	28.9	· 34.7	31.2	35.
10-24	22.0	24.0	22.0	23.0	22.2	24.6	26.4	28.
25-49 "	20.0	22.0	23.0	25.0	25.0	26.4	28.7	29.
50 - 99 **	24.0	24.0	25.0	26.0	27.5	29.7	33.2	37.
100-199 ''	39.0	43.0	43.0	47.0	48.8	51.2	54.2	57.
200-299 "	51.0	53.0	51.0	53.0	57.3	60.4	66.4	69.
300-499 "	54.0	62.0	63.0	67.0	70.5	75.4	83.9	85.
500-999 "	63.0	63.0	66.0	73.0	77.0	84.6	94.2	100.
1,000 +	72.0	77.0	80.0	79.0	90.1	92.6	100.3	113.
All hospitals					и 2			
Canada	44.0	47.0	47.0	51.0	53.8	58.0	63.5	68.
Newfoundland	48.0	57.0	49.0	50.0	54.0	65.4	83.8	99.
Prince Edward Island	27.0	28.0	30.0	32.0	28.1	26.2	26.1	27.
Nova Scotia	38.0	41.0	45.0	49.0	52.5	53.7	66.6	73.
New Brunswick	17.0	18.0	18.0	17.0	19.3	19.9	21.6	23.
Quebec	52.0	55.0	55.0	62.0	68.2	73.9	78.5	80.
Ontario	39.0	44.0	45.0	49.0	51.3	56.1	62.6	68.
Manitoba	55.0	52.0	50.0	52.0	56.3	59.1	63.6	69.
Saskatchewan	57.0	60.0	58.0	62.0	65.3	65.4	69.1	74.
Alberta	36.0	36.0	37.0	36.0	34.6	38.5	43.4	49.
British Columbia	47.0	48.0	45.0	47.0	47.9	50.3	55.2	63.
Yukon	26.0	25.0	29.0	23.0	29.7	26.0	26.6	27.
Northwest Territories	19.0 [°]	47.0	17.0	19.0 ⁻	22.5	26.4	25.0	26.

¹ Adults and children.

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Province	1961	1962	1963	1964	1965	1966	1967	1968
		Paid I	nours laborate	ory per 100 l	aboratory uni	ts done in h	ospital	
Canada								
Public general by bed size				13.2	12.9	12.0	11.7	10.9
1 - 9 beds				8.1	7.2	11.9	17.1	10.8
10 - 24 "				18.8	16.1	14.6	14.1	13.4
25 - 49 ''				15.2	14.2	13.5	12.8	11.7
50 - 99 ''				12.8	12.4	11.9	12.0	11.0
100 - 199 ''				13.1	12.7	12.1	11.3	10.6
200 - 299 ''				13.9	14.1	12.9	12.3	11.4
300 - 499 ''		••		13.5	12.8	12.1	12,4	11.0
500 - 999 ''		••		13.1	12.4	12.0	11.5	10.6
1,000 + "		••	••	12.3	12.7	11.0	10.8	11.0
All hospitals								
Canada	••	••		13,3	12.9	12,0	11.8	11.0
Newfoundland		**	·	12.6	11.6	11.4	13.7	13.3
Prince Edward Island			•••	10.9	8.6	9.7	9.1	8.7
Nova Scotia				20.3	19.6	18.2	20,8	20, 1
New Brunswick	••			16.8	16.7	15.5	16.3	15.3
Quebec				12.3	12.6	11.6	11.1	10.0
Ontario				13.9	13.2	12.4	12.2	11.2
Manitoba	·			13.8	13.5	12.5	12.5	12.7
Saskatchewan				-	_			
Alberta				12.3	11.2	10.8	9.8	9.3
British Columbia				12.3	11.4	10.4	10.2	10.9
Yukon				10.4	13.6	11.1	12.5	10.2
Northwest Territories	••	••	••	18.8	• 11.8	9.9	9.8	12.3

TABLE 10. Selected Laboratory Paid Hours Ratios, General and Allied Special Hospitals, by Province, 1961-68 - Concluded

¹ Adults and children.

TABLE 11. Selected Laboratory Unit Measurement Ratios, General and Allied Special Hospitals, by Province, 1961-68

Province	1961	1962	1963	1964	1965	1966	1967	1968
	Nun	ber of labor	atory units d	one in hospit	al laboratory	y per paid ho	ur in laborato	ory ¹
Canada								
Public general by bed size	6.1	6.2	7.1	7.6	7.9	8.3	8.6	9.2
1 - 9 beds	5.1	5.0	5.9	12.3	13.9	5.4	5.3	6.5
10 - 24 ''	4.8	4.4	5.2	5.3	6.2	6.9	7.1	7.6
25 - 49 ''	5.5	5.6	6.2	6.6	7.0	7.4	7.8	8.7
50 - 99 ''	7.0	7.1	7.9	7.8	8.1	8.6	8.7	9.4
100 - 199 ''	6.6	6.7	7.4	7.7	7.9	8.4	8.8	9.3
200 - 299 ''	5.7	6.2	6.7	7.2	7.1	7.8	8.1	8.7
300 - 499 ''	6.0	5.8	6.9	7.4	7.8	8.1	8.0	9.1
500 - 999 ''	5.7	6.5	7.3	7.7	8.0	8.3	8.9	9.5
1,000 + ''	6.8	6.0	7.0	8.1	7.9	9.1	9.3	9.1
All hospitals								
Canada	6, 1	6.2	7.1	7.5	7.8	8.3	8.5	9.1
Newfoundland	6.1	6.3	7.6	7.9	8.6	8.1	6.9	8.0
Prince Edward Island	8.7	8.6	10.3	9.2	11.6	10.3	11.0	11.4
Nova Scotia	4.6	4.9	4.9	4.9	5.1	5.5	4.8	5.0
New Brunswick	4.3	5.5	6.9	5.9	6.0	6.4	6.2	6.6
Quebec	6.2	6.1	7.4	8.1	7.9	8.7	9.2	10.1
Ontario	6.5	6.5	7.1	7.2	7.6	6.1	8.2	8.9
Manitoba	4.9	5.8	6.5	7.3	7.4	7.9	7.9	7.8
Saskatchewan	5.2	5.3	9.0	_	-	7.3	7.8	8.2
Alberta	6.5	7.0	7.3	8.1	8.9	9.2	10.2	10.7
British Columbia	6.5	6.7	7.6	8.1	8.8	9.5	9.8	9.3
Yukon	7.0	5.7	6.2	9.6	7.3	9.0	8.0	9.8
Northwest Territories	4.0	6.2	7.4	5.3	8.5	10.3	10.2	9.1

⁴ Adults and children.

*	1961	1962	1963	1964	1965	1966	1967	1968
		Number of	laboratory u	nits done in	hospital labo	oratory per p	atient-day ¹	
Canada						1 - -		
Public general by bed size			••	4.1	4.6	5.3	6.1	7.0
1- 9 beds			••	1.0	1.1	1.3	1.4	1.5
10- 24 **		·	. 	1.1	1.2	1.6	1.7	2.0
25-49 "			ı	1.6	1.7	1.9	2.1	2.5
50-99 **			•••	2.0	2.2	2.5	2.8	. 3.4
100-199 "	· · ·		. 	3.5	. 3.7	4.3	4.8	5.4
200-299 **			·	3.7	4.0	4.7	5.4	6.1
300-499 "		· · ·	· ••	. 4.7	5.3	6.1	6.7	7.8
500-999 "		· · ·	••	5.5	5.9	7.1	8.4	9.5
1,000+ "				5.9	, 7.3	. 8. 5 .	9.3	10.3
		•	•					John April
All hospitals		:	• •	-				
				1.1			. ·	
Canada		: ••	••	3.7	4.1	4.7	5.3	6.0
Newfoundland	·	i	4 j ••	i 3.5	3.8.	. 4.6	5.1	7.1
Prince Edward Island	1 · · · ·	•••	• ••	2.9	3.2	. 2. 7	2.8	3.1
Nova Scotia	· · · ·	· · ·	· · ·	2.4	2.6	2.9	3.1	3.6
New Brunswick	· · · ·	·	· . ••	1.0	' 1.1	1.3	1.3	1.5
Quebec				4.8	5.6	6.2	6.9	7.7
Ontario	··	••	• ••	3.6	; 3.9	4.5	5.0	6.0
Manitoba	· · · ·	••		3.5	3.8	4.5	. 4.8	5.0
Saskatchewan	· · ·		· ••		۰ 	. , 4.7	.5.4	· 5.8
Alberta		·		2.8	· 3.0	3.5	4.5	5.3
British Columbia			••	3.6	4.0	4.5	5.1	5.5
Yukon		••		2.1	2.3	2.1	2:0	2.5
Northwest Territories			. 	1.0	1.8	2.6	2.7	. 2.5
· · ·		Number of in-	patient labo	atory units (excl. referred	out) per 10	Dadmissions	1 [']
•	· · · ·	1	- ·		[<u> </u>			
Canada	· .							
Public general by bed size		2, 795. 3	3, 112. 2	3, 525. 4	4,020.7	4,544.3	5,167.0	5, 831. 1
1- 9 beds		473.5	414.4	574.7	637.7	622.0	632.2	728.7
10- 24 "		561.6	630.7	645.2	718.9	808.1	871.7	965.8
25-49 "		783.9	÷888.9	1,011.3	1,072.5	1,163.1	1,292.8	1,457.6
50- 99		1,327.2	1,515.9	1,519.5	1, 723. 4	1,897.7	2,071.7	2, 392. 3
100-199 "		2, 276. 8	2,439.9	2, 719. 3	3,045.6	3,399.0	3,690.6	3, 983. 9
200-299 "		2,773.1	2,958.3	3, 346. 9	3,622.2	4,110.5	4,536.0	4,838.7
300-499 "		3, 424. 6	3,863.2	4,350.2	4, 992. 7	5,509.4	6,077.0	6,854.0
500-999 "		4,331.0	4,879.6	5,631.9	6,351.5	7,117.4	8,416.1	9,149.4
1,000 + "		5, 110. 4	5,857.4	6,600.3	7, 270. 5	8,603.5	10,013.3	11,640.5
All hospitals								
Canada		2, 884. 9	3, 189.6	3, 607. 7	4,089.7	4,619.4	5, 205. 3	5, 849. 4
Newfoundland		1,892.1	2, 169. 3	2, 557.0	2, 899. 9	3,039.0	3, 449. 7	4,550.2
Prince Edward Island		1,976.6	2,358.3	2,001.0	2, 055. 3	1,996.0	2,048.1	4, 550. 2
Nova Scotia		1,576.3	1,729.1	1,939.9	2,255.5	2,366.7	2, 514.8	2,157.3
New Brunswick		980.9	1, 317.1	1,017.5	1,104.2	1,207.9	1,241.2	1,366.5
Quebec		3,729.7	4, 164. 9	4,921.9	5, 720. 0	6, 591. 2	7, 250. 1	7,772.8
Ontario		3,070.1	3,446.0	3,847.0	4,369.3	4,886.3	5,610.7	6,455.2
Manitoba		3,022.3	3,099.4	3,541.3	3,782.7	4,326.4	4,576.9	4, 566. 9
Saskatchewan		2, 590.6	2,680.8	2,863.2	3,206,2	3,581.6	3, 996. 4	4, 300. 9
Alberta		2,228.6	2,415.4	2,640.9	2,863.7	3, 284. 7	4, 152.8	5,041.1
British Columbia		2,622.2	2, 791. 6	3,097.0	3,297.1	3, 284. 1	4,152.8	4,927.7
Yukon		1,109.6	1,173.5	1,417.7	1, 523. 4	1,521.9	1,488.4	1,611.9
Northwest Territories		2,884.9	1,312.3	881.5	1,360.0	1, 829. 3	1,919.7	1,621.4
		_,			1,000.0	1,000.0	1,515.1	1,021.4

TABLE 11. Selected Laboratory Unit Measurement Ratios, General and Allied Special Hospitals,by Province, 1961-68 - Concluded

¹ Adults and children.

TABLE 12. Revenue Fund Expenditure per Patient-day, Public General and Allied Special Hospitals, by Province, 1961-68

Province	196 1	1962	1963	1964	1965	1966	1967	1968
Canada				do	llars	·		
Public general by bed size	24.32	26.36	28.58	31.00	34.05	38.56	43.40	48.44
1- 9 beds	19.94	21.69	23. 33	23.98	23.43	26.74	29.95	33, 74
10 - 24 "	18.50	19.84	20.44	22, 19	23.64	26.13	28.87	32, 50
25-49 "	19.02	20.09	21.28	22.59	24.37	27.03	30, 37	34.18
50-99 ''	19.53	20.81	22. 50	23.88	26.11	29.34	33, 12	37, 30
100 - 199 ''	22.13	24.23	26.15	28.60	31.18	35.09	38,63	42.56
200 - 299 ''	24.98	26.61	28.61	30.39	33.37	37.97	41.78	46,62
300 - 499 ''	25, 21	27.30	29.30	32. 19	35.90	40.45	45.48	49.14
500 - 999 ''	27,89	29.82	33.01	36.16	39.91	45.84	52,76	58.19
1,000 + "	30.09	33.00	35.34	38,02	40.97	46, 24	51,60	59.31
								-
All hospitals								
Canada	23, 07	24. 82	26.87	29. 18	31.92	36,06	40, 38	45, 01
Newfoundland	19.92	21.15	23.01	26.27	28.34	32. 22	38, 56	44.87
Prince Edward Island	19.06	18,81	20.46	22.69	24.43	26,61	29, 93	31.62
Nova Scotia	23,64	25.37	27.31	29.35	32.05	34.00	40, 25	44.97
New Brunswick	23.66	25.55	27.46	28,68	30.03	32, 25	36.02	39, 20
Quebec	23. 18	25.16	28.45	32, 39	36.82	43.96	47.62	49.82
Ontario	24.26	26, 22	28.00	29,84	32.15	35,69	40, 41	46.95
Manitoba	21.94	22,69	24.25	25.63	27,90	31, 33	35.54	39,89
Saskatchewan	21.16	22.82	23.40	25.62	27.65	30, 52	33.94	38.62
Alberta	19.90	21.32	23, 08	24, 27	25, 89	29.07	33.87	36.85
British Columbia	23.48	24.89	26.07	27.45	29.37	31.54	35, 50	40.98
Yukon	29.43	ի	(45.32	50,25	51.73	52.87	70.74	89.87
Northwest Territories	32. 21	} 28.37	22,04	25. 18	27.68	29.37	32.87	36.36

¹ Only public hospitals are required to submit financial data to the Dominion Bureau of Statistics.

TABLE 13. Salary Cost per Patient-day, ¹ Total Hospital and Laboratory Department, Public General and
Allied Special Hospitals, ² by Province, 1961-68

Province		Total	hospital	salary o	cost per	patient-	day¹		Labor	atory s	alary c	ost ^s pe	r patie	nt-day ¹
	1961	1962	1963	1964	1965	1966	1967	1968	1963	1964	1965	1966	1967	1968
Canada		•	د ۱		·		dollars	· · ·		•				
Public general by bed size	15.74	17.20	18.18	19.92	22.06	25. 22	28.83	32. 31	0.91	1.04	1.21	1.43	1.72	1.99
1- 9 beds	12, 34	13.53	14.34	15.06	15.16	17.33	19.73	22.56	0.41	0.38	0.45	0.49	0.42	0.71
10 - 24 "	10.83	11.64	12.03	13, 11	14.07	15.69	17.80	20.46	0.32	0.36	0.37	0.44	0.51	0.62
25-49 "	11.57	12.09	12.71	13.56	14.61	16.30	18.71	21.50	0.38	0.41	0.45	0.51	0.63	0.74
50- 99 "	12.48	13.14	14.15	15.08	16.63	18.75	21.55	24.72	0.42	0.47	0.53	0.62	0. 77	0.93
100 - 199 ''	14.35	15.78	16.51	18.35	20.19	23.10	25.97	28.71	0.71	0.82	J.94	1.11	1. 27	1.46
200 - 299 ''	15, 80	17.19	17.91	19.19	21.30	24.62	27.28	30.50	0.80	0.89	1.02	1. 25	1. 48	1.71
300 - 499 ''	16.80	18, 19	18,84	20.92	23.63	26.57	30.49	33. 15	1.07	1. 19	1.40	1.60	1. 94	2. 18
500 - 999 **	18. 22	19,75	21.18	23.48	26.02	30.42	35.33	38.86	1. 20	1.42	1.65	2.00	2.40	2.68
1,000 + "	19.68	22.03	23, 30	25, 23	27.26	30.87	34.96	40. 32	1.42	1.55	1.85	2.14	2. 59	3. 10
All hospitals										1				
Canada	14, 94	16. 22	17.14	18.82	20. 77	23. 67	26. 94	30.16	0.84	0,95	1. 10	131	1. 56	1.81
Newfoundland	10.93	11.09	11, 76	13.96	15.03	17.01	21.06	25.89	0.66	0.78	0.88	1.03	1.48	2.10
Prince Edward Island	10.31	10.26	11.13	12.76	14.01	15.81	17.98	19.04	0.36	0.39	0.37	0.42	0.48	0.50
Nova Scotia	14.12	14.92	15.53	16.94	18.11	19.62	23, 45	26.96	0.60	0.72	0.88	0.99	1.30	1.59
New Brunswick	13.63	15.05	15.85	16.62	17.44	18.79	22, 11	24.61	0.21	0.23	0.28	0.31	0.40	0.46
Quebec	14.39	16.27	18.11	21.24	24.73	30.18	34.08	35.17	1. 14	1.36	1.60	1.97	2. 28	2.34
Ontario	16.19	17.61	18.23	19.47	21.05	23.41	26.57	31.07	0.82	0.91	1.02	1. 21	1.51	1.83
Manitoba	14.75	14.98	15.68	16.76	18.34	20.43	23.04	26.42	0.75	0.81	0.93	1.06	1.20	1.54
Saskatchewan	14.07	15.19	15.05	16.48	17.81	19.64	21.70	24.76	0.86	0.95	1.05	1.17	1. 31	1.55
Alberta	12.89	13, 40	14.41	15.11	16.25	18.19	21, 42	23.69	0.53	0.56	0.63	0.81	0.97	1. 13
British Columbia	15.96	17.03	17.42	18.45	19.75	21.15	24.09	28.52	0.72	0.79	0.93	1.03	1.28	1.69
Yukon	16.22	h	ſ 25. 28	27.97	31.20	30.91	43.95	50.64	0.78	_	0,17	_		_
Northwest Territories	16.74	}15.74	12, 37	13, 97	15.05	15.92	18.21	20.83	0.33	0.37	0.50	0.43	0. 47	0.53

¹ Adults and children. ² Only public hospitals are required to submit financial data to the Dominion Bureau of Statistics. ³ Excludes pathologist remuneration.

			tory direct unit done	cost per in hospita	1	Laboratory salary cost per laboratory unit done in hospital					
Province	1964	1965	1966	1967	1968	1964	1965	1966	1967	1968	
Canada											
Public general by bed size 1 - 9 beds 10 - 24 25 - 49 50 - 99 100 - 199 200 - 299 300 - 499 500 - 999 1,000 +	$\begin{array}{c} 0.42\\ 0.23\\ 0.47\\ 0.48\\ 0.45\\ 0.44\\ 0.46\\ 0.42\\ 0.43\\ 0.35\\ \end{array}$	$\begin{array}{c} 0.45\\ 0.27\\ 0.53\\ 0.49\\ 0.47\\ 0.46\\ 0.49\\ 0.44\\ 0.47\\ 0.41\\ \end{array}$	$\begin{array}{c} 0.46\\ 0.30\\ 0.50\\ 0.54\\ 0.50\\ 0.48\\ 0.50\\ 0.45\\ 0.45\\ 0.47\\ 0.40\end{array}$	$\begin{array}{c} 0.49\\ 0.38\\ 0.57\\ 0.56\\ 0.55\\ 0.49\\ 0.51\\ 0.49\\ 0.50\\ 0.42\\ \end{array}$	$\begin{array}{c} 0.50\\ 0.45\\ 0.62\\ 0.55\\ 0.50\\ 0.51\\ 0.50\\ 0.49\\ 0.47\\ \end{array}$	0.25 0.12 0.28 0.23 0.23 0.24 0.25 0.26 0.24	0.26 0.14 0.27 0.25 0.24 0.25 0.25 0.26 0.27 0.26	0.26 0.17 0.26 0.24 0.26 0.27 0.26 0.28 0.25	0.28 0.22 0.28 0.27 0.27 0.27 0.29 0.29 0.29 0.29	0.28 0.26 0.31 0.29 0.28 0.27 0.28 0.29 0.28 0.29 0.28 0.30	
All hospitals											
Canada	0.43	0.46	0.46	0.49	0.50	0.25	0.26	0.27	0.28	0.29	
Newfoundland Prince Edward Island Nova Scotia New Brunswick Quebec Ontario Manitoba Saskatchewan Alberta British Columbia Yukon Northwest Territories	$\begin{array}{c} 0.40\\ 0.44\\ 0.87\\ 1.59\\ 0.42\\ 0.43\\ 0.34\\ 0.34\\ 0.55\\ 0.34\end{array}$	$\begin{array}{c} 0.41\\ 0.42\\ 1.14\\ 1.72\\ 0.46\\ 0.44\\ 0.35\\ 0.34\\ 0.36\\ 0.34\\ 0.34\end{array}$	$\begin{array}{c} 0.42\\ 0.59\\ 0.97\\ 1.65\\ 0.47\\ 0.45\\ 0.35\\ \hline 0.37\\ 0.37\\ 0.45\\ 0.53\\ \end{array}$	$\begin{array}{c} 0.51\\ 0.64\\ 1.15\\ 1.76\\ 0.49\\ 0.38\\ -\\ 0.35\\ 0.33\\ 0.35\\ \end{array}$	0.52 0.62 1.19 1.62 0.48 0.50 0.44 0.35 0.47 0.59 0.36	$\begin{array}{c} 0.22\\ 0.13\\ 0.30\\ 0.24\\ 0.27\\ 0.25\\ 0.21\\ \hline 0.19\\ 0.20\\ \hline 0.27\\ \end{array}$	0.23 0.11 0.33 0.26 0.29 0.25 0.22 0.20 0.20 0.22 0.22	0.22 0.16 0.34 0.27 0.31 0.26 0.22 0.22 0.21 0.27	0.28 0.17 0.40 0.32 0.32 0.28 0.23 0.23 0.21 0.23 0.27	0.29 0.16 0.43 0.29 0.29 0.28 0.20 0.20 0.20 0.29 0.20 0.20 0.27	

TABLE 14. Selected Laboratory Cost Ratios, Public General and Allied Special Hospitals,¹ by Province, 1964-68

¹ Only public hospitals are required to submit financial data to the Dominion Bureau of Statistics.

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TABLE 15. Selected Data for Qualified	Combined Laboratory and Radiological	Technicians, Reporting General and							
Allied Special Hospitals, by Province, 1961-68									

	Combined laboratory and radiological technicians employed full and part-time																
Province	1961		19	1962		1963		1964		1965		1966		1967		1968	
	Full- time	Part- time		Part- time	Full- time	Part- time	Full- time	Part- time	Full- time	Part- time	Full- time	Part- time	Full- time	Part- time	Full- time	Part- time	
Canada Public general by bed size	106 2 38 45 14 7 - -	14 1 4 - - - 5	124 2 40 45 24 5 8 — —		240 5 65 23 9 15 61	20 9 4 1 5 -	189 4 69 73 25 18 - - - -		191 3 75 67 24 21 - 1 -	21 13 4 1 2 	186 3 75 74 26 8 		203 2 78 67 24 4 - - 28	43 2 9 18 14	210 1 69 25 5 1 35 - 5	29 13 14 1 	
All hospitals Canada Newfoundland Prince Edward Island Nova Scotia New Brunswick Quebec Ontario Manitoba Saskatchewan Alberta British Columbia Yukon Northwest Territories	1117 1 2 5 12 4 8 43 34 8 - -	14 	129 1 9 3 - 6 5 3 4 3 3 5 3 6 - -	11 	258 1 5 7 - 97 41 160 66 6 - 1	21 - - 7 - 2 5 3 3 - -	195 1 4 5 18 7 12 69 71 7 7 1 2		197 24 5 17 9 89 66 4 1	21 - 1 - 1 - 4 7 6 2 - - - - - - - - - - - - -	191 22 5 3 - 5 6 8 65 75 2 - -	19 	206 13 5 5 - 29 6 7 72 64 5 - -	44 - 1 - 14 - 1 9 17 2 - -	213 18 6 - 42 5 9 62 59 6 - - -	31 1 - 1 - 3 11 13 2 	

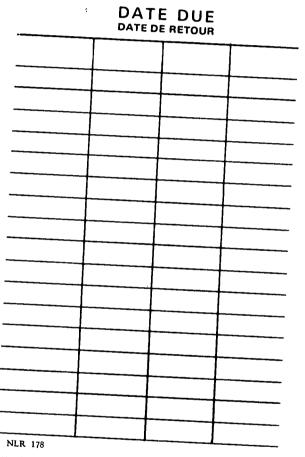
	Separations of combined laboratory and radiological technicians employed full-time										
Province	1961²	1962²	1963	1964	1965	1966	1967	1968			
Canada Public general by bed size 1-9 beds 10-24 ** 25-49 ** 50-99 ** 200-299 ** 300-499 ** 500-999 ** 1,000 +	112 1 43 9 - 22 - -	104 3 21 11 2 - 2 19 - 15	82 28 32 15 - 3 - -	73 1 26 23 14 6 3 	86 2 29 30 10 3 - 12 - -	71 33 29 9 - - - -	76 _24 30 8 1 9 4	65 26 30 7 2 —			
All hospitals		107		**							
Canada Newfoundland Prince Edward Island Nova Scotia New Brunswick Quebec Ontario Manitoba Saskatchewan Alberta British Columbia Yukon Northwest Territories	114 28 - - 6 4 2 42 24 2 4 2 4 2 4 2 4 2 4 2 4 2 4	105 21 3 1 16 - 4 34 24 2 2 -	84 - 2 1 - 3 3 27 38 6 - 1	73 	86 5 2 5 2 2 33 32 4 1	72 11 - - 2 1 23 31 31 3 -	77 1 14 3 1 18 31 2 	66 4 - 1 - 2 28 28 28 28 2 2 -			
	Paid hours of combined laboratory and radiological technicians ¹										
	1961	1962²	1963	1964	1965	1966	1967	1968			
Canada Public general by bed size 1 - 9 beds 10 - 24 "" 25 - 49 " 50 - 99 " 100 - 199 " 200 - 299 " 300 - 499 " 500 - 999 " 1,000 + "	··· ··· ··· ···	537, 311 14, 654 191, 017 170, 866 66, 087 13, 957 15, 884 34, 772 30, 074	517, 594 11, 003 140, 110 134, 480 49, 332 22, 296 29, 259 131, 114 —	398, 389 7, 086 147, 749 157, 614 51, 604 34, 336 – – –	395, 340 8, 856 149, 865 139, 461 49, 855 45, 457 - 1, 846 - -	371, 726 7, 010 151, 075 149, 787 51, 801 12, 053 – – – –	430, 793 6, 032 147, 702 157, 810 43, 839 9, 060 - - - 66, 350	422, 157 2, 208 141, 093 157, 873 49, 639 9, 998 2, 170 53, 762 5, 414			
All hospitals		F#1 400	550 700	411 500	405 760	200.075	490 157	400.000			
Canada	···	551, 409 36, 692 24, 828 14, 535 53, 449 25, 568 22, 474 191, 831 146, 125 35, 247	558, 789 2, 080 10, 754 14, 178 - 207, 212 9, 926 24, 423 130, 905 139, 223 16, 714	411, 598 3, 224 8, 468 10, 432 35, 941 17, 089 26, 749 137, 495 152, 787 16, 983	406, 769 15, 309 9, 630 10, 648 	383, 375 10, 830 10, 576 6, 872 10, 889 14, 365 15, 495 137, 679 168, 286 8, 383	438, 157 9, 404 11, 176 8, 639 	430, 936 7, 920 12, 360 14, 528 64, 899 10, 157 22, 347 145, 997 137, 241 15, 487			
Northwest Territories		660	3, 374	2, 430	2, 152	-	_	-			

TABLE 15. Selected Data for Qualified Combined Laboratory and Radiological Technicians, Reporting General and Allied Special Hospitals, by Province, 1961-68 - Concluded

¹ Employed full-time and part-time.
 ² Data for the years 1961 and 1962 include unqualified as well as qualified combined laboratory and radiological technicians.

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